A.D. 1874, 12th August. N° 2776.

SPECIFICATION

OF

HECTOR AUGUSTE DUFRENÉ.

PPARATUS FOR ADMINISTERING VAPOUR BATHS.

LONDON:
PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,
PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY:
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ce 8d. 1875.

A.D. 1874, 12*th* *August*. N° 2776.

Apparatus for Administering Vapour Baths.

LETTERS PATENT to Hector Auguste Dufrené, of No. 10, Rue de la Fidélité, Paris, in the Republic of France, and 4, South Street, Finsbury, London, Civil Engineer and Patent Agent, for the Invention of "An Improved Portable Apparatus for Administering Vapour Baths."—A communication from Madame Caroline Devaux, a person resident at Tours, in the Republic of France.

Sealed the 5th February 1875, and dated the 12th August 1874.

PROVISIONAL SPECIFICATION left by the said Hector Auguste Dufrené at the Office of the Commissioners of Patents, with his Petition, on the 12th August 1874.

I, Hector Auguste Dufrené, of No. 10, Rue de la Fidélité, Paris, in the Republic of France, and 4, South Street, Finsbury, London, Civil Engineer and Patent Agent, do hereby declare the nature of the said Invention for "An Improved Portable Apparatus for Administering Vapour Baths," to be as follows, that is to say:—

The Invention communicated to me consists in the construction of an improved portable apparatus for administering vapour baths, either in

the bed of an invalid or in an arm chair. This apparatus consists of a zinc cover which is placed over the bed and covers the invalid, whose head only passes out through a hole made in a waterproof cloth closing in the apparatus. This chamber or enclosure is provided with a pipe or chimney for the escape of steam, and encloses a tube perforated with holes for receiving the vapour produced in an apparatus placed at the foot of the bed. This apparatus consists of a tin or other metal box containing water, and is heated by a spirit lamp.

By modifying the form of the chamber, this kind of bath may be applied to an arm chair.

SPECIFICATION in pursuance of the conditions of the Letters Patent, filed by the said Hector Auguste Dufrené in the Great Seal Patent Office on the 11th February 1875.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, Hector Auguste Dufrené, of No. 10, Rue de la Fidélité, Paris, in the Republic of France, and 4, South Street, Finsbury, London, Civil Engineer and Patent Agent, send greeting.

WHEREAS Her most Excellent Majesty Queen Victoria, by Her Letters Patent bearing date the Twelfth day of August, in the year of our Lord One thousand eight hundred and seventy-four, in the thirty-eighth year of Her reign, did, for Herself, Her heirs, and successors, give and grant unto me, the said Hector Auguste Dufrené, Her special licence that I, the said Hector Auguste Dufrené, my executors, administrators, and assigns, or such others as I, the said Hector Auguste Dufrené, my executors, administrators, and assigns, should at any time agree with, and no others, from time to time and at all times thereafter during the term therein expressed, should and lawfully might make, use, exercise, and vend, within the United Kingdom of Great Britain and Ireland, the Channel Islands, and Isle of Man, an Invention for "An Improved Portable Apparatus for Administering Vapour Baths," a communication from Madame Caroline Devaux, a person resident at Tours, in the Republic of France, upon the condition (amongst others) that I, the said Hector Auguste Dufrené, my executors or administrators, by an instrument in writing under my, or their, or one of their

hands and seals, should particularly describe and ascertain the nature of the said Invention, and in what manner the same was to be performed, and cause the same to be filed in the Great Seal Patent Office within six calendar months next and immediately after the date of the said Letters Patent.

NOW KNOW YE, that I, the said Hector Auguste Dufrené, do hereby declare the nature of the said Invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement, reference being had to the Drawing hereto annexed, and to the figures and letters marked thereon, that is to say :—

The Invention communicated to me consists in the construction and arrangement of an improved portable apparatus for administering vapour baths, either in the bed of an invalid or in an arm chair.

I will proceed to first describe the construction and arrangement of the improved apparatus applied to an arm chair, by reference to Figure 1 of the accompanying Drawing which represents the apparatus open. A is the back of the chair; B, the caned seat; C and D, perforated spiral pipes for distributing the steam through the apparatus; E, stove to receive the spirit lamp for heating the apparatus; F, G, foot rest; H, K, doors; I, opening for the introduction of the stove behind the apparatus.

Figure 2 represents the arm chair shut up.

Figure 4 is a detached view of the stove and perforated spiral pipes.

Figure 3 shews a stove in detail in which a perforated warming pan A for distributing the heat is employed in place of the perforated spiral pipes shewn in Figure 4. B, C, pipes connecting the warming pan with the stove; D, regulator; E, stove; F, slide on which the stove is placed; G, lamp. Either of the stoves Figures 3 and 4 may be employed in the apparatus. A similar internal arrangement is employed in the bed apparatus.

Figure 5 represents the improved apparatus applied to a bed. *a* is the steam discharge pipe; B, C, is a cover of zinc placed on the bed and closed by a waterproof cloth which can be drawn along a slide; D, stove; E, lamp with two burners which pass into the stove.

Figure 6 represents part of the bed apparatus without the cloth. *a* and B are the perforated pipes through which the steam escapes and is distributed; C, opening for putting the stove in communication with the said pipes.

Figure 7 is a detached view of the stove and lamp. B is the stove; C, D, the pipes, and E the regulator.

Figure 8 shews the lamp in detail. *a* is the body of the lamp; D, inlet for the spirit; B, C, air pipes; E, F, are brass burners with their wicks, and which pass into the stove through the openings G, H, Figure 11.

The steam for the bath is produced from water in a hot water box placed in the stove; *a*, Figure 9, shews this hot water box; B, pipe passing through the box. On the top of the water box is placed a chamber for containing aromatics, and shewn in Figure 10 at *a*; B is an opening corresponding with the tube B of the water box; C, D, is a handle for removing the aromatic chamber.

Figure 11 shews the stove with the cover raised. *a*, cover of the stove; B, chamber for the aromatics; C, handle of same; D, tube of the water chamber E; F, body of the stove.

The apparatuses may be constructed of any suitable material, but I make them preferably of zinc.

Having thus described the nature of the Invention communicated to me, and the manner of performing the same, what I claim is, the general arrangement and construction of an improved apparatus for administering vapour baths, as herein-before described and represented in the accompanying Drawing.

In witness whereof, I, the said Hector Auguste Dufrené, have hereto set my hand and seal, this Ninth day of February, in the year of our Lord One thousand eight hundred and seventy-five.

H. A. DUFRENÉ. (L.S.)

LONDON:
Printed by George Edward Eyre and William Spottiswoode,
Printers to the Queen's most Excellent Majesty. 1875.

A.D. 1874. Aug. 12. No. 2776.
DUFRENÉ'S SPECIFICATION.

(1 SHEET)

FIG. 7.

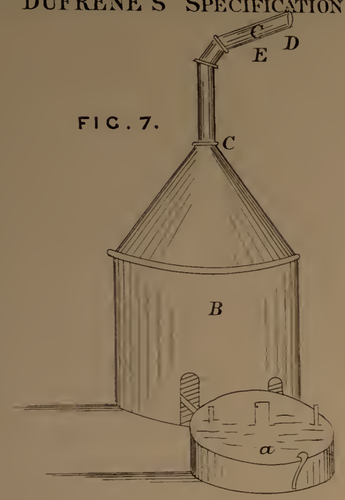


FIG. 10.

FIG. 9.

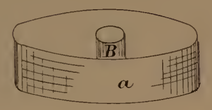


FIG. 8.

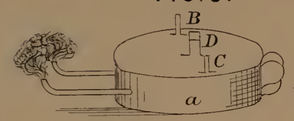


FIG. 11.

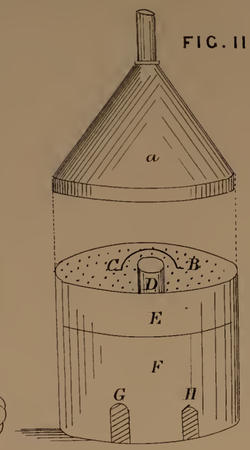


FIG. 6.

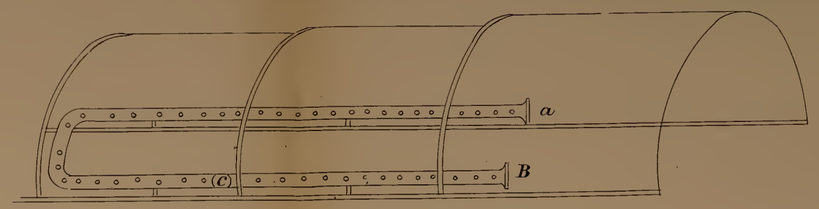


FIG. 1.

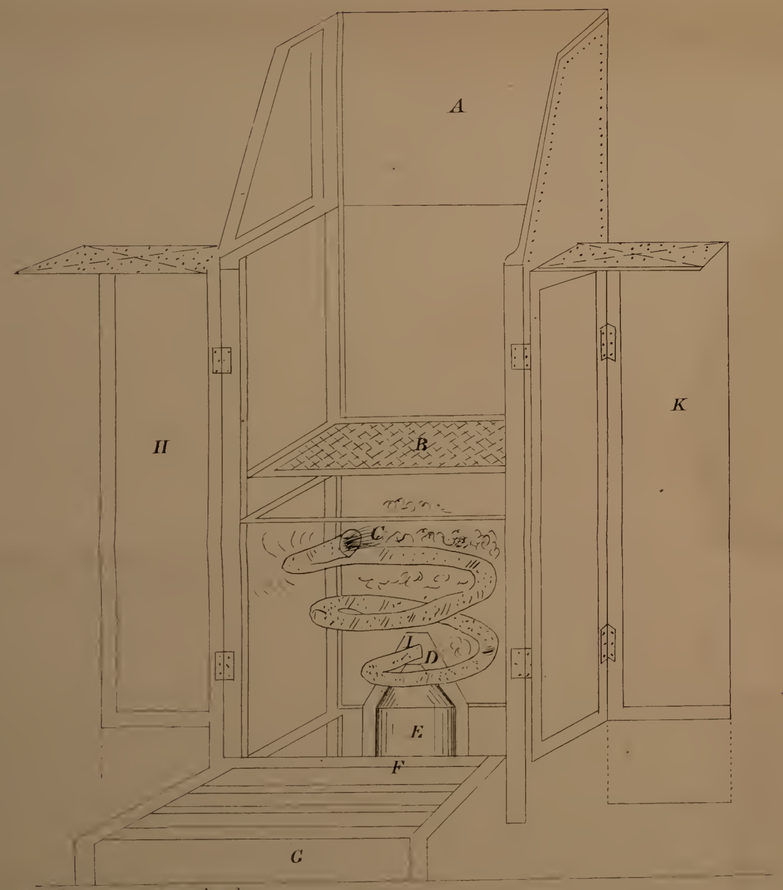


FIG. 2.

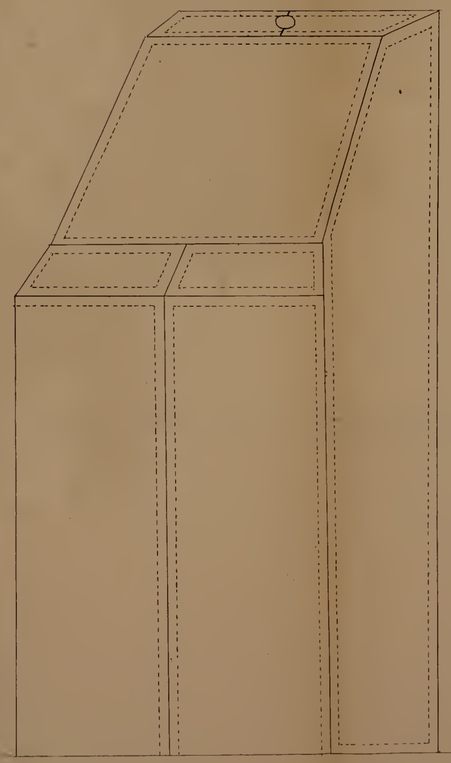


FIG. 4.

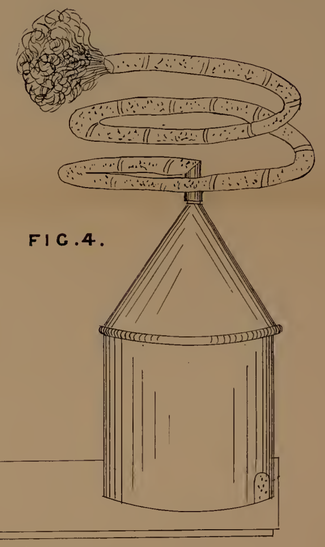


FIG. 3.

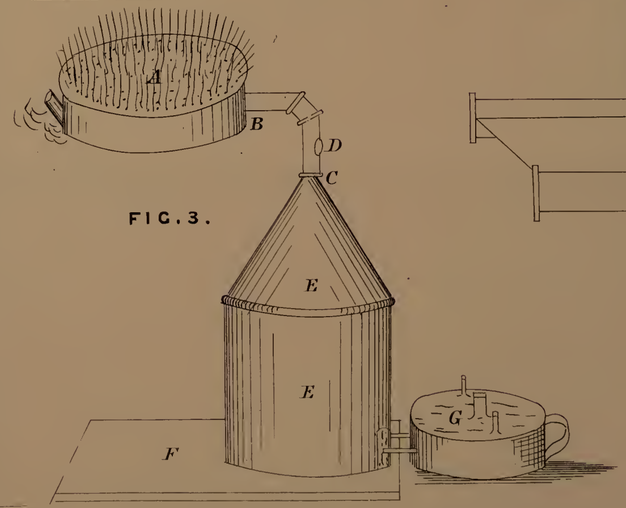
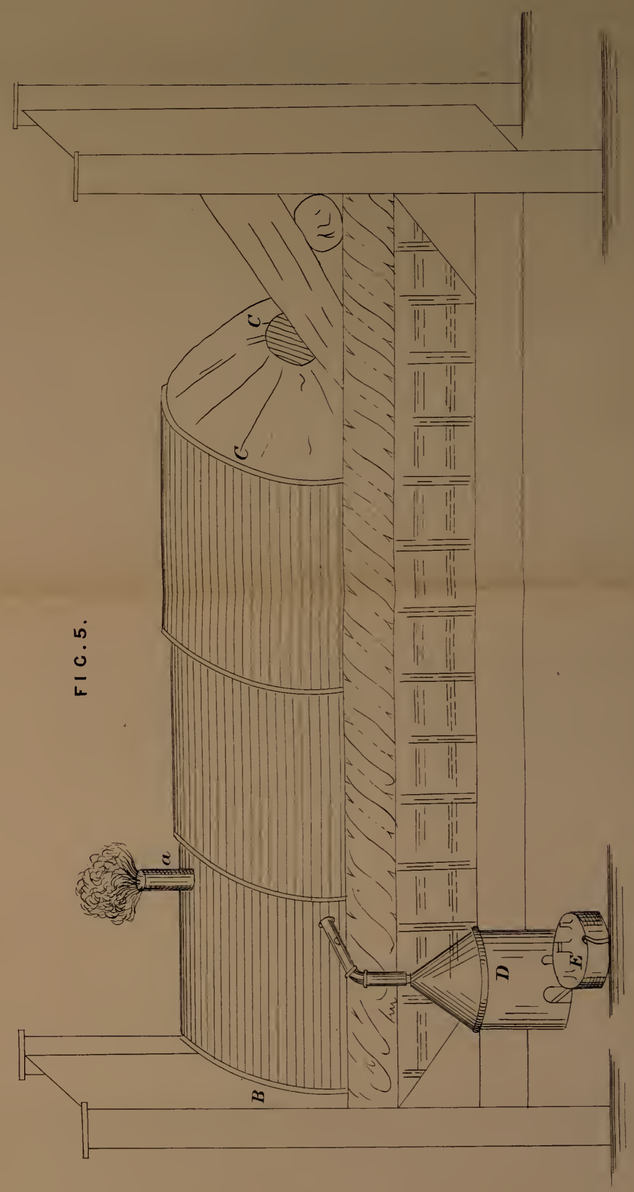


FIG. 5.



The filed drawing is not colored

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